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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 10

**Complete if Known**

Application Number	10/660,122
Filing Date	9-11-2003
First Named Inventor	David J. Ecker
Art Unit	1637
Examiner Name	Bertagna
Attorney Docket Number	ISIS-10450

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1	US- 6,453,244	09/17/2002	Oefner	Whole Document
	2	US- 5,436,129	07/25/1995	Stapleton	Whole Document
	3	US- 5,451,500	09/19/1995	Stapleton	Whole Document
	4	US- 5,523,217	06/04/1996	Lupski et al.	Whole Document
	5	US- 5,567,587	10/22/1996	Kohne	Whole Document
	6	US- 5,727,202	03/10/1998	Kucala	Whole Document
	7	US- 5,745,751	04/28/1998	Nelson, et al	Whole Document
	9	US- 6,533,317	04/22/2003	Lincoln, et al	Whole Document
	10	US- 5,832,489	11/03/1998	Kucala	Whole Document
	11	US- 5,981,190	11/09/1999	Israel	Whole Document
	12	US- 6,018,713	01/25/2000	Coli, et al	Whole Document
	13	US- 6,055,487	04/25/2000	margery, et al	Whole Document
	14	US- 6,074,831	06/13/2000	Yakhini, et al	Whole Document
	15	US- 6,303,297	10/16/2001	Lincoln, et al	Whole Document
	16	US- 6,389,428	05/14/2002	Rigault, et al.	Whole Document
	17	US- 6,393,367	05/21/2007	Tang, et al	Whole Document
	18	US- 5,849,492	12/15/1998	Rogan, et al.	Whole Document
	19	US- 20040180328	09/16/2004	Ecker, et al	Whole Document
		US-			

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	20	EP 0620862 04-29-1998 E.I	04/29/1998	E.I. Du Pont	Whole Document	
	21	ISR for PCT/US02/20330	02/09/2003	Ecker	Whole Document	
	22	IPER for PCT/US02/20336	06/12/2004	Ecker	Whole Document	
	23	ISR for PCT/US2005/000386	05/09/2006	Ecker	Whole Document	
	24	ISR for PCT/US03/08761	12/09/2005	Ecker	Whole Document	
	25	ISR for PCT/US2004/011877	04/20/2006	Ecker	Whole Document	

Examiner  
Signature

/Angela Bertagna/

Date  
Considered

03/10/2008

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(Use as many sheets as necessary)

Sheet	2	of	10
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Filing Date	9-11-2003
First Named Inventor	David J. Ecker
Art Unit	1637
Examiner Name	Bertagna
Attorney Docket Number	ISIS-10450

## U. S. PATENT DOCUMENTS

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	26	WO 01/57518	08-09-2001	Goodnough	whole document	
	27	WO 93/08297	04-29-1993	Baylor Coll. of Medicine	whole document	
	28	WO 95/13396	05-18-1995	Fluit, et al.	whole document	
	29	WO 02070664	12-09-2002	Ecker, et al	whole document	
	30	SESR PC/US0338830	08-14-2007	Ecker, et al	whole document	

Examiner Signature	/Angela Bertagna/	Date Considered	03/10/2008
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## Complete if Known

Application Number 10/660,122

Filing Date 9-11-2003

First Named Inventor David J. Ecker

Art Unit 1637

Examiner Name Bertagna

Sheet 3 of 10

Attorney Docket Number ISIS-10450

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	31	Batey, R.T. et al., Nucleic Acids Research 20:4515-4523 (1992) Preparation of Isotopically Labeled Ribonucleotides For Multidimensional NMR Spectroscopy of RNA	
	32	Baumer et al., Am. J. Hum. Genet. 1994 54:618-630 Age-related Human mtDNA Deletions: A Heterogeneous Set of Deletions Arising at a Single Pair of Directly Repeated Sequences	
	33	Fraser, C.M. et al., Science 1995 270:397-403 The Minimal Gene Complement of Mycoplasma Genitalium	
	34	Goto et al., J. Gen. Appl. Microbiol. 2000 46:1-8 Application of the Partial 16S rDNA Sequence as an Index For Rapid Identification of Species in the Genus Bacillus	
	35	Holm, L., et al., Bioinformatics 1998 14:423-429 Removing Near -neighbour Redundancy From Large Protein Sequence Collections	
	36	Howell et al., Am. J. Hum. Genet. 2000 66:1589-1598 "Persistent Heteroplasmy of a Mutation in the Human mtDNA Control Region: Hypermutation as an Apparent Consequence of Smp"	
	37	Jansen et al., Theor. Appl. Genet. 1995 91:33-37 "Genotype-by-environment interaction in genetic mapping of multiple quantitative trait loci"	
	38	Jensen et al., Appl. Environ. Microbiol. 1993 59:945-952 Rapid Identification of Bacteria on the Basis of Polymerase Chain Reaction-Amplified Ribosomal DNA Spacer Polymorphism	
	39	Keller et al., Anal. Chem. 2002 74:5383-5392 Empirical Statistical Model to Estimate the Accuracy of Peptide Identifications Made By MS/MS and Database Search	
	40	McLafferty, F. et al., J. Am. Soc. Mass Spectrom., 1998 9:92-95 Comparison of Algorithms and Databases for Matching Unknown Mass Spectra	

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Date Considered

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**Complete if Known****Application Number** 10/660,122**Filing Date** 9-11-2003**First Named Inventor** David J. Ecker**Art Unit** 1637**Examiner Name** Bertagna

Sheet 4 of 10

**Attorney Docket Number** ISIS-10450**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	41	Parson et al., "Polulation data for 101 Austrian Caucasian mitochondrial DNA d-loop sequences: Application of mtDNA sequence analysis to" Int. J. Legal Med. 1998 111:124-132	
	42	Torrioni et al., Genetics 1996 144:1835-1850 Classification of European mtDNAs From an Analysis of Three European Populations	
	43	Haugland et al., Mol. Cell. Probes 1998 12:387-396 Identification of Putative Sequence Specific PCR Primers For Detection of the Toxigenic Fungal Species Stachybotrys Chartarum	
	44	VAN DER VOSSEN et al., Int. J. Food Microbial. 1996; 33:35-49 "DNA based typing, identification and detection systems for food spoilage microorganisms: development and implem"	
	45	Application Serial No: 09/798,007 Office Communication Mailed 2/10/05	
	46	Application Serial No: 09/798,007 Office Communication Mailed 02/27/03	
	47	Application Serial No: 09/798,007 Office Communication Mailed 4/16/02	
	48	Application Serial No: 09/798,007 Office Communication Mailed 6/20/02	
	49	Application Serial No: 09/798,007 Office Communication Mailed 6/30/04	
	50	Application Serial No: 09/798,007 Office Communication Mailed 7/11/03	

<b>Examiner Signature</b>	/Angela Bertagna/	<b>Date Considered</b>	03/10/2008
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<b>First Named Inventor</b>	David J. Ecker
<b>Art Unit</b>	1637
<b>Examiner Name</b>	Bertagna
<b>Attorney Docket Number</b>	ISIS-10450

Sheet 5 of 10

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	51	Application Serial No: 09/798,007 Office Communication Mailed 11/6/02	
	52	Application Serial No: 09/798,007 Office Communication Mailed 11/19/03	
	53	Application Serial No: 09/891,793 Office Communication Mailed 3/8/05	
	54	Application Serial No: 09/891,793 Office Communication Mailed 3/9/04	
	55	Application Serial No: 09/891,793 Office Communication Mailed 3/16/06	
	56	Application Serial No: 09/891,793 Office Communication Mailed 6/14/04	
	57	Application Serial No: 09/891,793 Office Communication Mailed 8/11/05	
	58	Application Serial No: 09/891,793 Office Communication Mailed 8/26/03	
	59	Application Serial No: 09/891,793 Office Communication Mailed 9/13/06	
	60	Application Serial No: 09/891,793 Office Communication Mailed 10/20/04	

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	61	Application Serial No: 10/156,608 Office Communication Mailed 4/1/04	
	62	Hurst, et al. "MALDI-ROF Analysis of Polymerase Chain Reaction Products from Methaneotrophic Bacteria", Analytical Chemistry Vol. 70, pp. 2693-8 (1998)	
	63	Takeuchi, et al. Jnl of Clinical Micro., June 1999, p1839-1845, Serotyping of Adenoviruses on Conjunctival Scrapings by PCR and Sequence Analysis	
	64	Application Serial No: 10/156,608 Office Communication Mailed 5/26/05	
	65	Application Serial No: 10/156,608 Office Communication Mailed 10/14/04	
	66	Application Serial No: 10/156,608 Office Communication Mailed 11/19/04	
	67	Application Serial No: 10/418,514 Office Communication Mailed 2/27/06	
	68	Application Serial No: 10/418,514 Office Communication Mailed 03/27/07	
	69	Application Serial No: 10/418,514 Office Communication Mailed 09/29/05	
	70	Application Serial No: 10/418,514 Office Communication Mailed 12/6/07	

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	73	Application Serial No: 10/660,122 Office Communication Mailed 07/6/06	
	74	Application Serial No: 10/660,122 Office Communication Mailed 9/19/06	
	75	Application Serial No: 10/660,996 Office Communication Mailed 2/28/06	
	76	Application Serial No: 10/660,996 Office Communication Mailed 5/30/06	
	77	Application Serial No: 10/660,996 Office Communication Mailed 9/5/06	
	78	Application Serial No: 10/660,997 Office Communication Mailed 3/13/06	
	79	Application Serial No: 10/660,997 Office Communication Mailed 5/26/06	
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	82	Application Serial No: 10/660,998 Office Communication Mailed 5/1/06	
	83	Application Serial No: 10/660,998 Office Communication Mailed 8/3/06	
	84	Application Serial No: 10/660,998 Office Communication Mailed 8/7/07	
	85	Application Serial No: 10/660,998 Office Communication Mailed 12/11/07	
	86	Application Serial No: 10/728,486 Office Communication Mailed 4/10/06	
	87	Application Serial No: 10/728,486 Office Communication Mailed 5/11/07	
	88	Application Serial No: 10/728,486 Office Communication Mailed 7/27/06	
	89	Application Serial No: 10/728,486 Office Communication Mailed 10/17/07	
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	91	Application Serial No: 10/754,415 Office Communication Mailed 02/27/07	
	92	Application Serial No: 10/754,415 Office Communication Mailed 3/13/06	
	93	Application Serial No: 10/754,415 Office Communication Mailed 8/28/06	
	94	Application Serial No: 10/754,415 Office Communication Mailed 8/30/07	
	95	Application Serial No: 11/059,776 Office Communication Mailed 1/19/07	
	96	Application Serial No: 11/059,776 Office Communication Mailed 5/29/07	
	97	Application Serial No: 11/060,135 Office Communication Mailed 3/8/07	
	98	Application Serial No: 11/060,135 Office Communication Mailed 7/24/07	
	99	Application Serial No: 11/060,135 Office Communication Mailed 12/21/06	
	100	Application Serial No: 11/210,516 Office Communication Mailed 6/8/07	

<b>Examiner Signature</b>	/Angela Bertagna/	<b>Date Considered</b>	03/10/2008
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known****Application Number** 10/660,122**Filing Date** 9-11-2003**First Named Inventor** David J. Ecker**Art Unit** 1637**Examiner Name** Bertagna**Attorney Docket Number** ISIS-10450

Sheet 10

of

10

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	101	Application Serial No: 11/210,516 Office Communication Mailed 10/19/07	
	102	Application Serial No: 11/233,630 Office Communication Mailed 6/8/07	
	103	Application Serial No: 11/233,630 Office Communication Mailed 7/13/07	
	104	Application Serial No: 11/331,978 Office Communication Mailed 11/15/07	
	105	Application Serial No: 11/331,987 Office Communication Mailed 7/16/07	
	106	Application Serial No: 11/331,987 Office Communication Mailed 10/22/07	
	107	Application Serial No: 11/409,535 Office Communication Mailed 10/31/07	
	108	Elnifro, et al., Jml. Clinical Micro., June 2000, p2055-2061 PCR and Restriction Endonuclease Analysis for Rapid Identificatoin of Human Adenovirus Subgenera	

Examiner Signature	/Angela Bertagna/	Date Considered	03/10/2008
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